

US009636597B2

(12) United States Patent Rehkemper et al.

(54) FLYING TOY DOLL ASSEMBLY

(71) Applicant: Rehco, LLC, Chicago, IL (US)

(72) Inventors: Jeffrey Rehkemper, Chicago, IL (US);

Steven Rehkemper, Chicago, IL (US); John Peach, East Aurora, NY (US);

Ana Sessler, Chicago, IL (US)

(73) Assignee: Rehco, LLC, Chicago, IL (US)

(*) Notice: Subject to any disclaimer, the term of this

patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

0.5.C. 154(b) by 0 days.

This patent is subject to a terminal dis-

claimer

(21) Appl. No.: 15/093,827

(22) Filed: Apr. 8, 2016

(65) Prior Publication Data

US 2016/0220918 A1 Aug. 4, 2016

Related U.S. Application Data

- (63) Continuation of application No. 14/294,032, filed on Jun. 2, 2014, now Pat. No. 9,358,474, which is a continuation-in-part of application No. 29/458,743, filed on Jun. 21, 2013, now Pat. No. Des. 740,376.
- (51) Int. Cl.

 A63H 27/127 (2006.01)

 A63H 27/00 (2006.01)

 A63H 3/48 (2006.01)

 A63H 3/52 (2006.01)

 A63H 3/50 (2006.01)

(10) Patent No.: US 9,636,597 B2

(45) **Date of Patent:** *May 2, 2017

(56) References Cited

U.S. PATENT DOCUMENTS

D183,794	S	10/1958	Gardner
5,071,383			Kinoshita
5,172,863			Melone et al.
5,525,086	A	6/1996	Gentile et al.
D372,277	S	7/1996	Henley
5,672,086	A	9/1997	Dixon
D503,142	\mathbf{S}	3/2005	Rehkemper et al.
D506,178	S	6/2005	Rehkemper et al.
8,282,437	B2	10/2012	Norman et al.
D694,837	S	12/2013	Sullivan
9,358,474	B2 *	6/2016	Rehkemper A63H 27/12
(Continued)			

Primary Examiner — Nini Legesse (74) Attorney, Agent, or Firm — Brooks Kushman P.C.

(57) ABSTRACT

A toy character includes a body, a first propeller assembly, a second propeller assembly, and a motor. The body extends in a longitudinal direction and has a longitudinal axis. The first propeller assembly is mounted to the body to rotate in a first direction about the longitudinal axis and positioned at a mid-portion of the body. The second propeller assembly is mounted to the body to rotate in a second direction about the longitudinal axis and spaced apart from the first propeller assembly. The second propeller assembly is mechanically linked to the first propeller assembly for counter-rotation in the second direction when the first propeller assembly rotates in the first direction. The motor is in communication with the first and second propeller assemblies to drive rotations in the first direction and the second direction.

13 Claims, 23 Drawing Sheets

